IM1 Problem Set 12 - Daily Tasks		
Task 1	Task 2	DC
Put solutions to problems from the previous Problem Set on the board	Discuss all problems and come to a consensus. Record solutions in your notebooks and present solutions.	DC

Problem Set 12		
12.1	What does $(x-2)^3$ mean? What about $\left(\frac{5x^2}{2y^4}\right)^3$ ? So now, simplify the expression $\left(\frac{2x}{3y^3}\right)^3 \times \left(\frac{9y}{6x^3}\right)^2$	
12.2	Prove using algebra that the three equations below all represent the same line.  a. $y = \frac{2}{3}x + 6$ b. $3y - 2x = 18$ c. $y - 2 = \frac{2}{3}(x + 6)$	
12.3	For each of the following linear equations, determine the slope and y-intercept. Then graph each of the lines.  a. $y = \frac{7}{3} - 4x$ b. $-5x + 2y = -8$ c. $y = -x$	
12.4	<ul> <li>a. Fill in the table at the right with value for x and y so that the pairs are solutions to the equation 5x - 3y = 10.</li> <li>b. Use the ordered pairs to graph the line. Based on your graph, is the slope of the line positive or negative?</li> <li>c. Determine the slope of the line just as you did previously. Does this correspond with your answer to part b?</li> <li>d. How could you have found the slope just by looking at the equation?</li> <li>e. What is special about the point with 0 as its y-coordinate?</li> </ul>	
12.5	Solve the following equations: a. (i) $-18 - 6k = 6(1 + 3k)$ (ii) $5n + 34 = -2(1 - 7n)$ b. (i) $2(4x - 3) - 8 = 4 + 2x$ (iv) $3v - 5 = -8(6 + 5v)$	

